

FIG. 1
Related Art

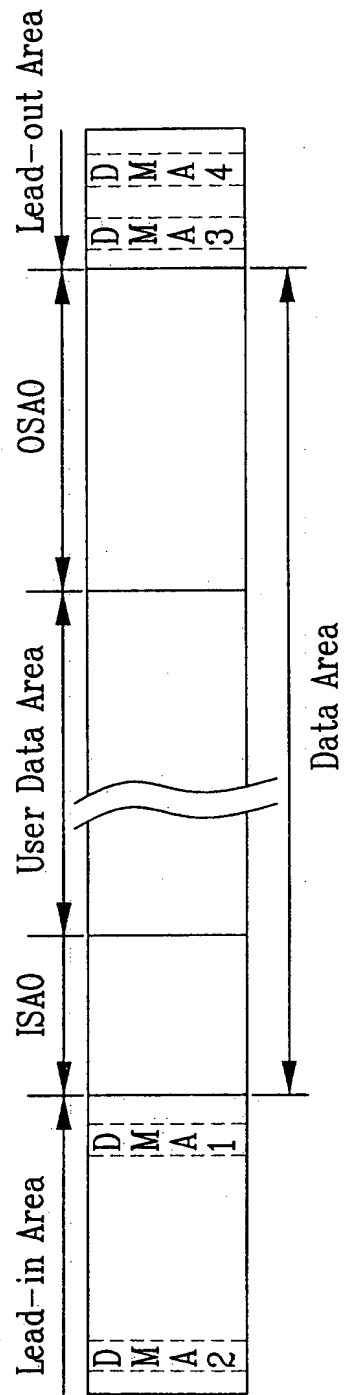


FIG. 2

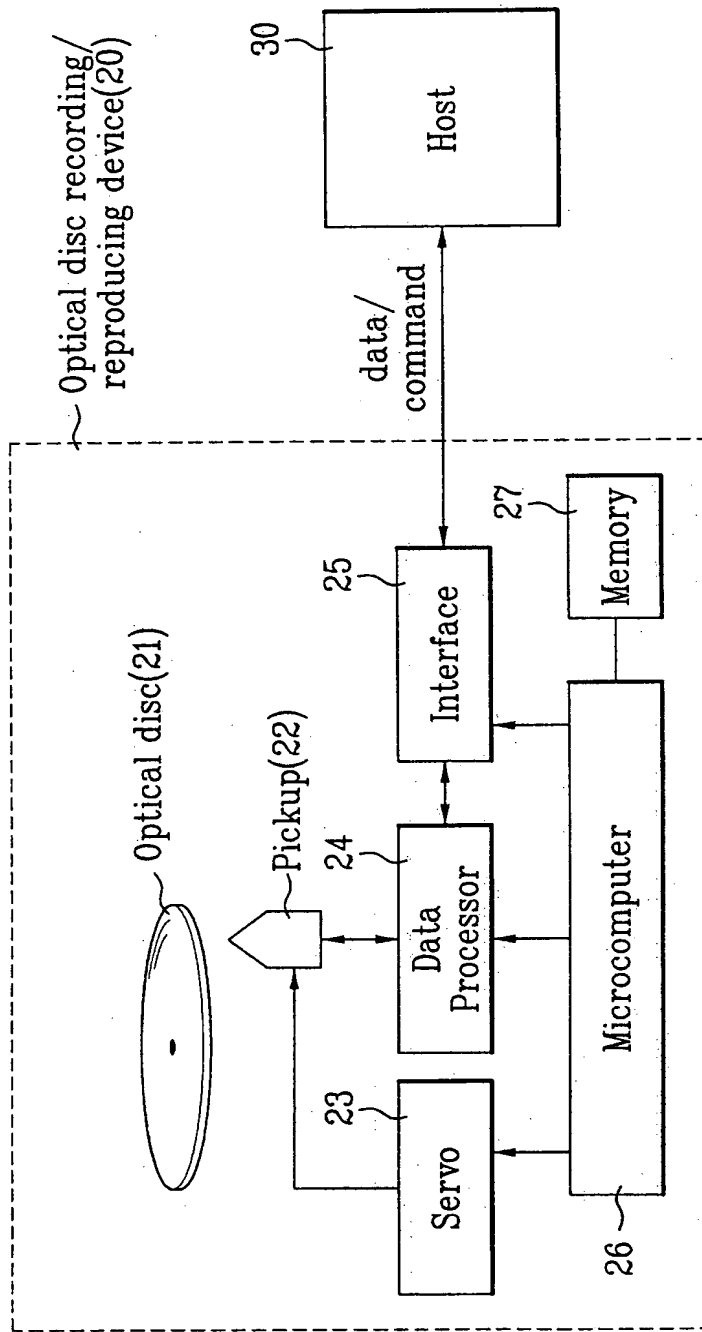


FIG. 3A

Single Layer BD-WO

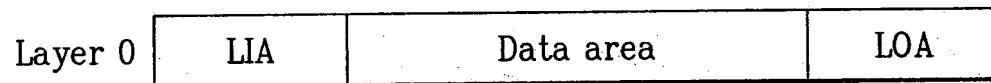


FIG. 3B

Dual Layer BD-WO

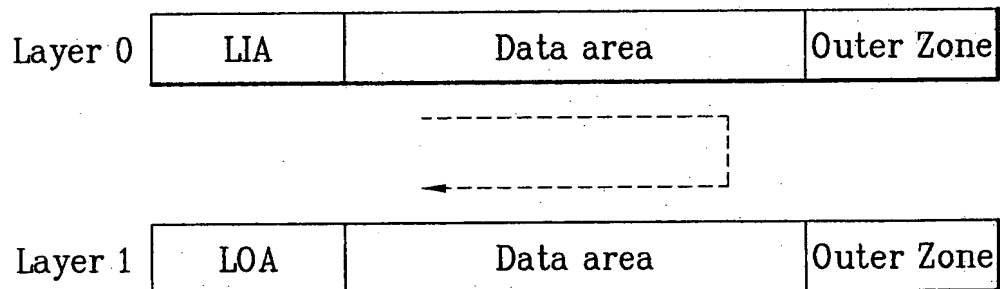
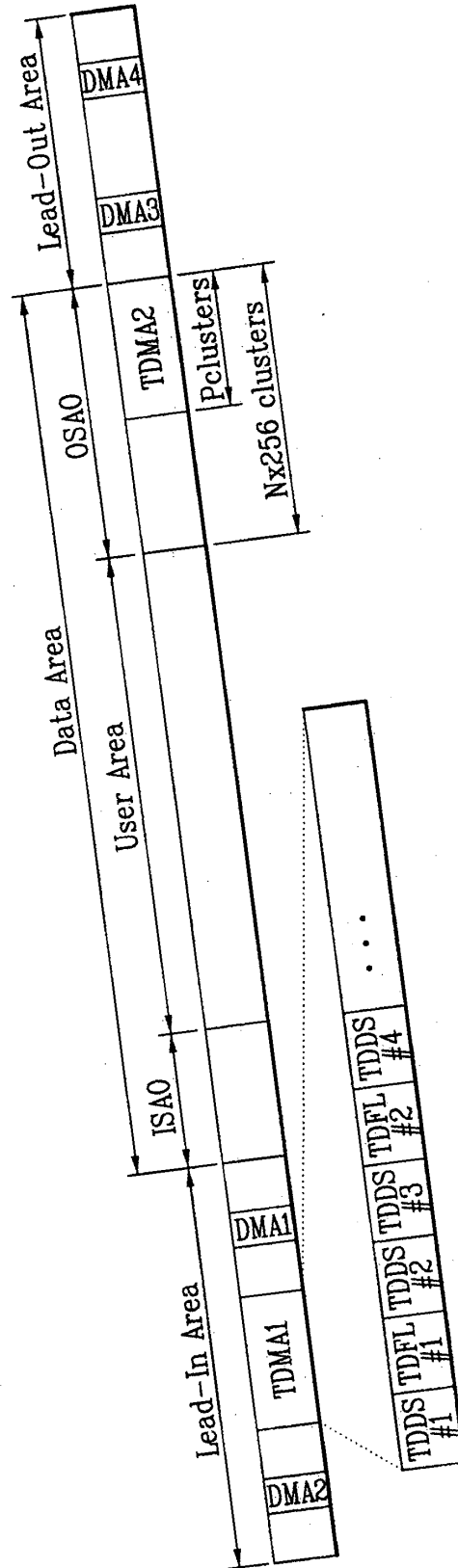


FIG. 4



- * DMA : Defect Management Area
- * TDMA : Temporary DMA
- * ISA : Inner Spare Area
- * OSA : Outer Spare Area
- * TDFL : Temporary Defect List
- * TDDS : Temporary Disc Definition Structure

FIG. 5A

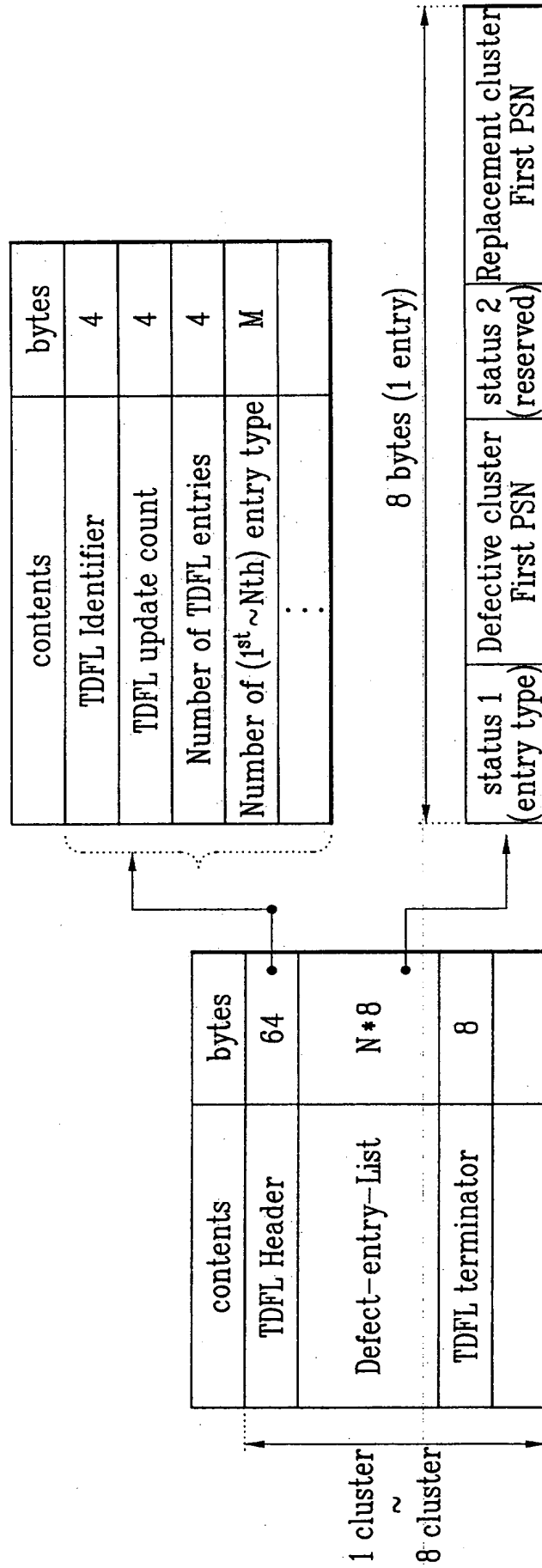
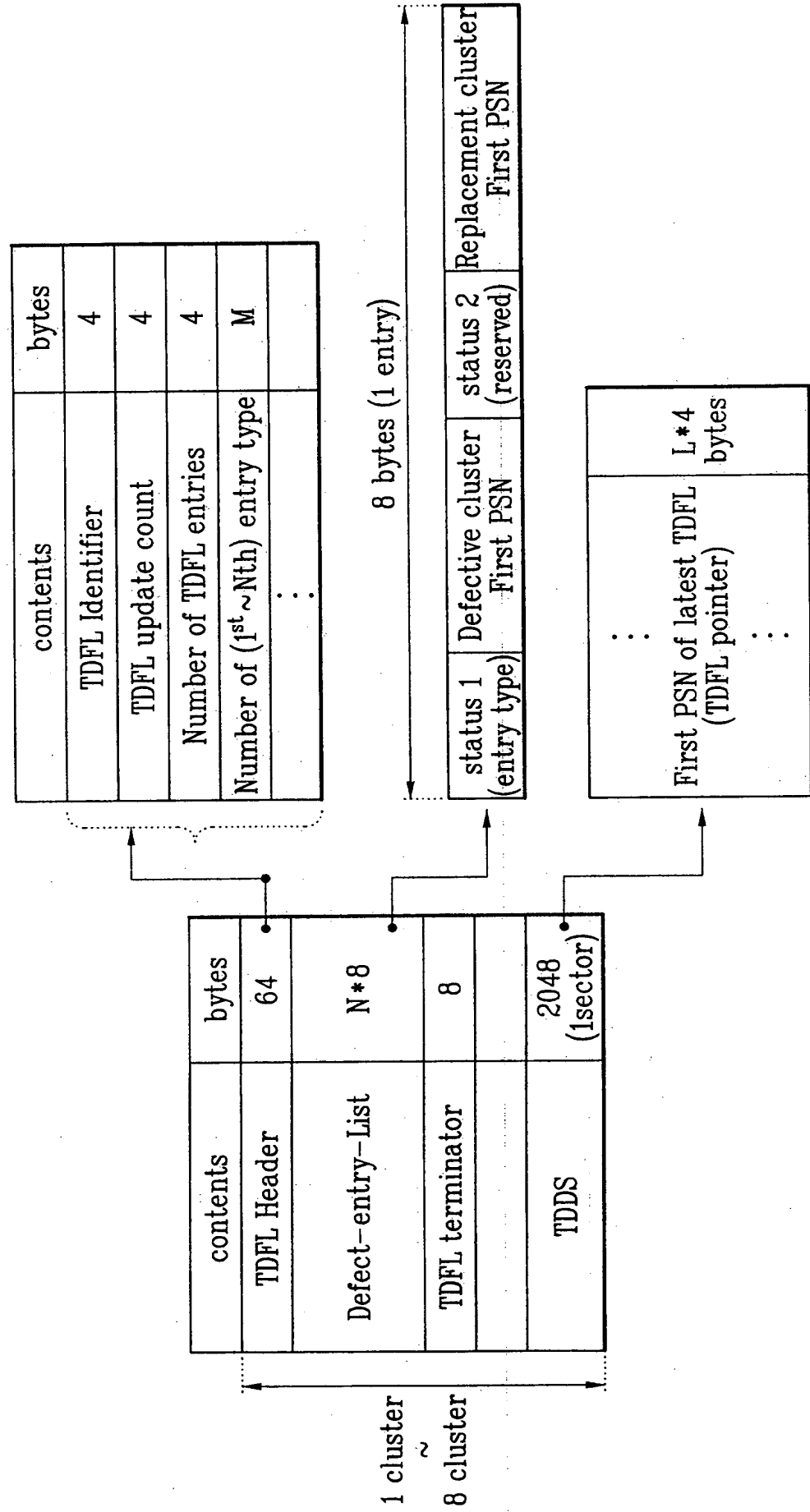


FIG. 5B



'L' is determined to number of TDFL pointer in each case

FIG. 6A

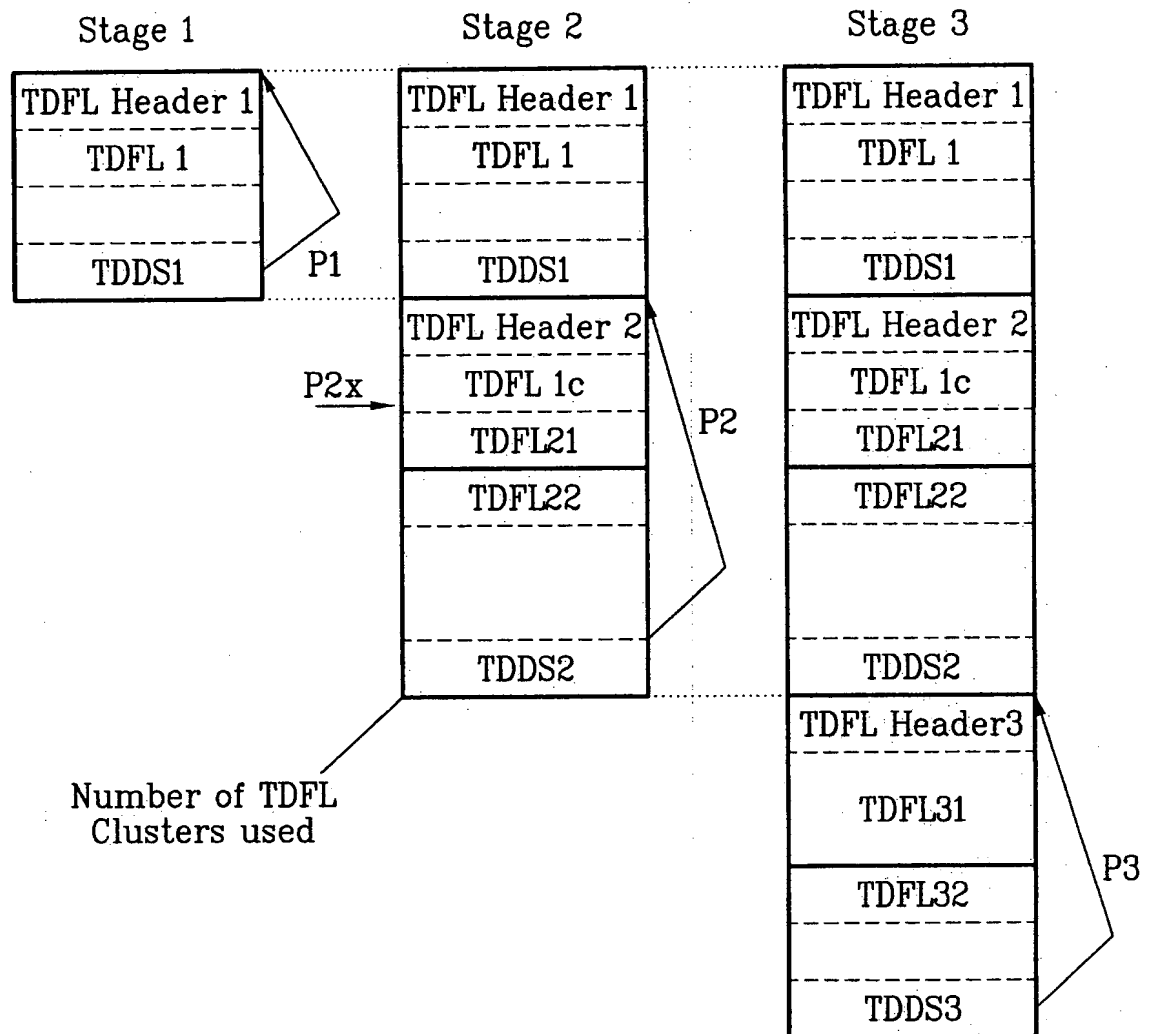


FIG. 6B

Disc	TDFL pointer	Stage 1	Stage 2	Stage 3	...
SL/DL disc	1 st TDFL pointer	P1	P2	P3	...

FIG. 7A

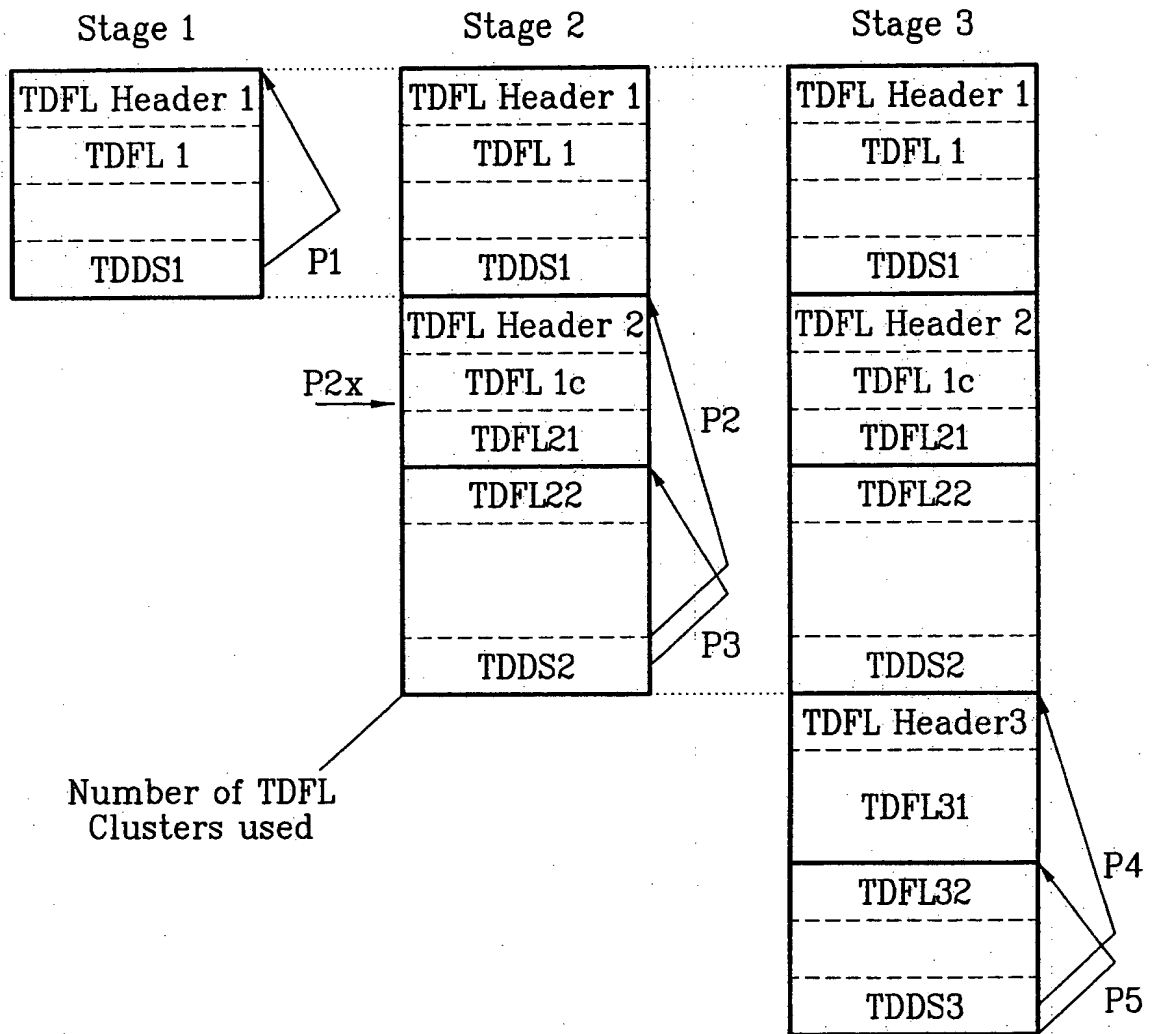


FIG. 7B

Disc	TDFL pointer	Stage 1	Stage 2	Stage 3	...
SL disc	1 st TDFL pointer	P1	P2	P4	...
	2 nd TDFL pointer	0	P3	P5	...
	3 rd TDFL pointer	0	0	0	...
	4 th TDFL pointer	0	0	0	...
DL disc	5 th TDFL pointer	0	0	0	...
	6 th TDFL pointer	0	0	0	...
	7 th TDFL pointer	0	0	0	...
	8 th TDFL pointer	0	0	0	...

FIG. 8A

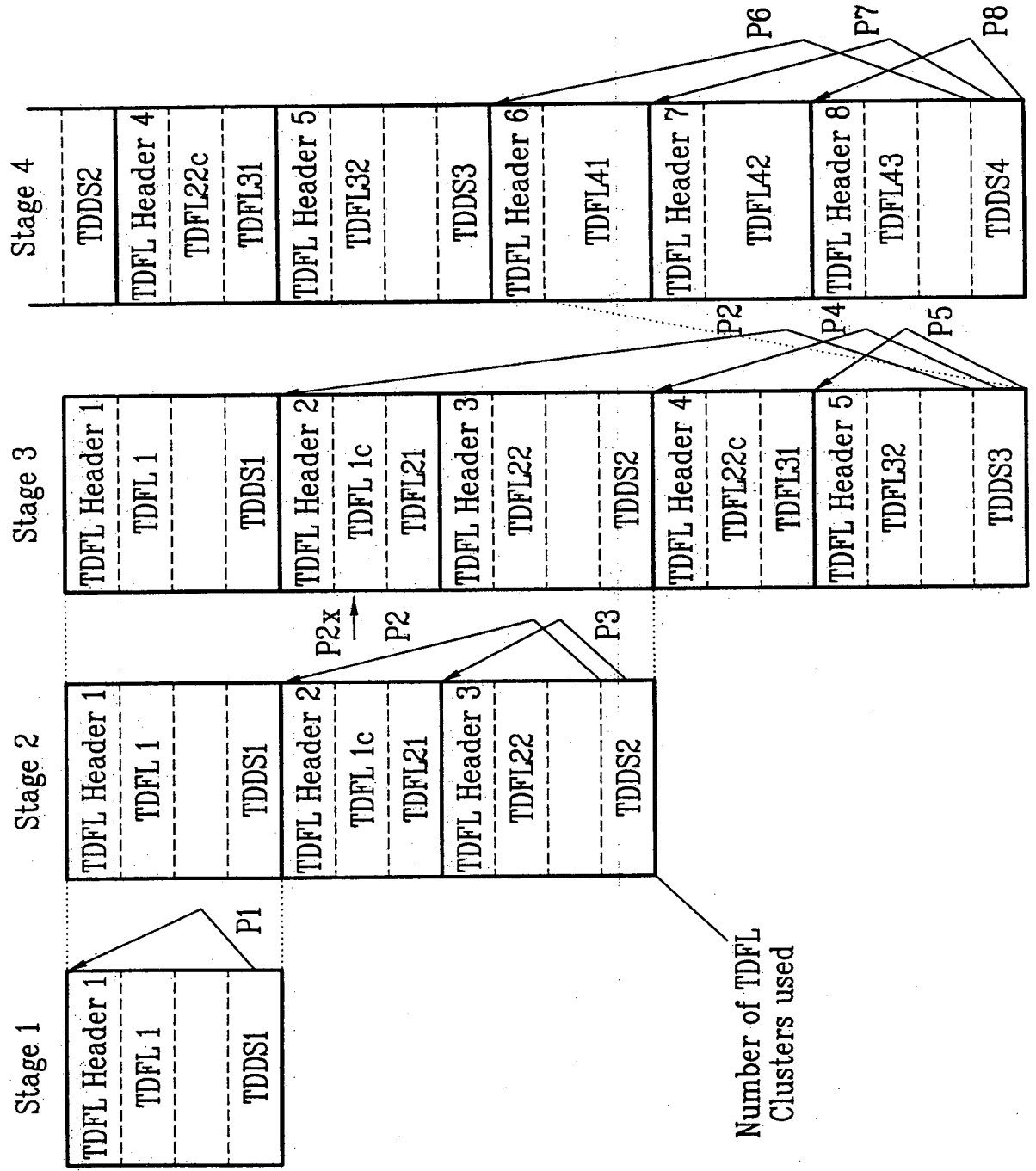


FIG. 8B

Disc	TDFL pointer	Stage 1	Stage 2	Stage 3	Stage 4	...
SL disc (DC disc)	1 st TDFL pointer	P1	P2	P2	P6	...
	2 nd TDFL pointer	0	P3	P4	P7	...
	3 rd TDFL pointer	0	0	P5	P8	...
	4 th TDFL pointer	0	0	0	0	...
DL disc	5 th TDFL pointer	0	0	0	0	...
	6 th TDFL pointer	0	0	0	0	...
	7 th TDFL pointer	0	0	0	0	...
	8 th TDFL pointer	0	0	0	0	...

FIG. 9A

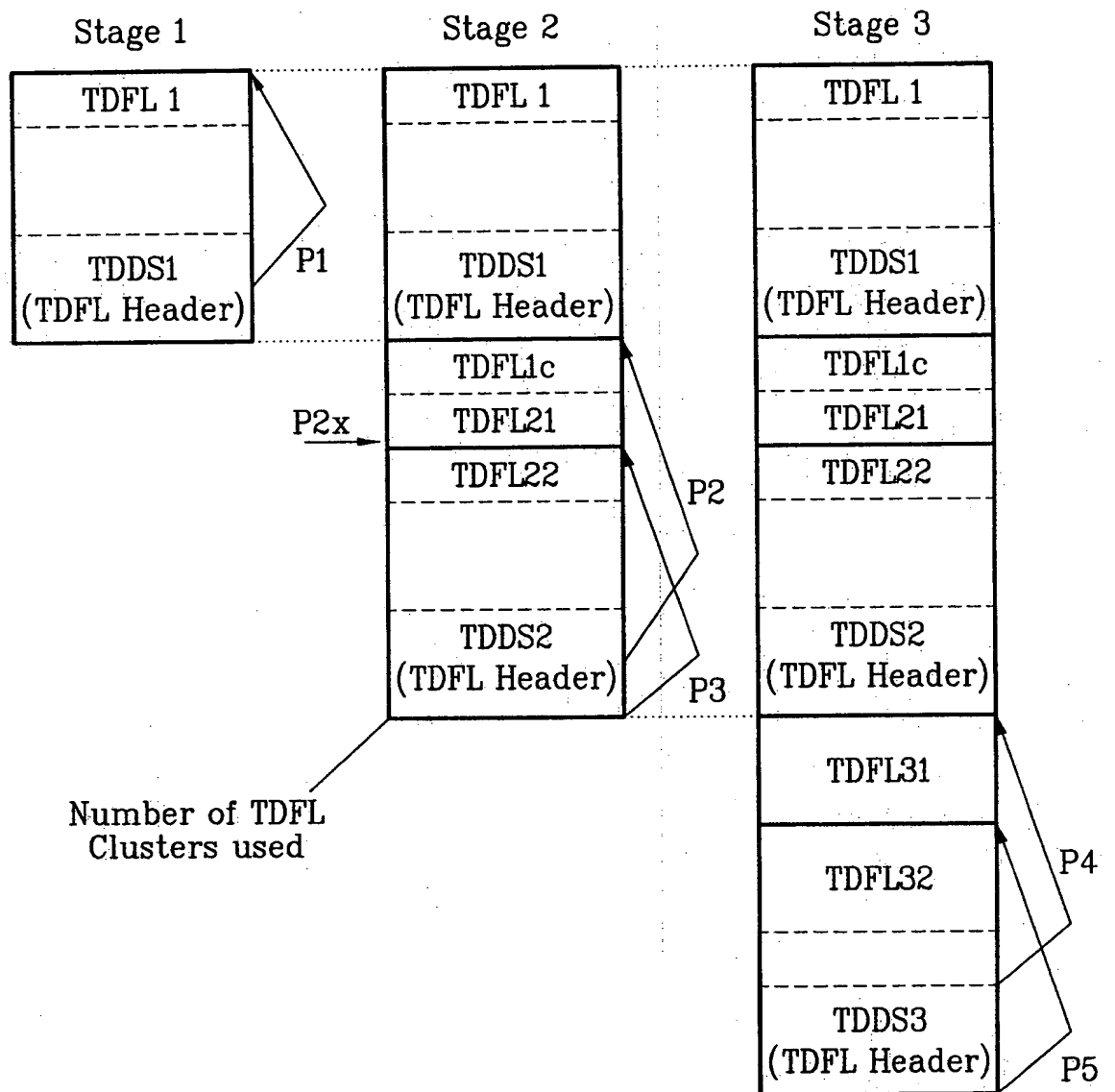


FIG. 9B

Disc	TDFL pointer	Stage 1	Stage 2	Stage 3	. . .
SL disc	1 st TDFL pointer	P1	P2	P4	. . .
	2 nd TDFL pointer	0	P3	P5	. . .
	3 rd TDFL pointer	0	0	0	. . .
	4 th TDFL pointer	0	0	0	. . .
DL disc	5 th TDFL pointer	0	0	0	. . .
	6 th TDFL pointer	0	0	0	. . .
	7 th TDFL pointer	0	0	0	. . .
	8 th TDFL pointer	0	0	0	. . .